

Author index for papers in Volume 48

Pages are numbered consecutively through the volume: 1-148, January; 149-290, March; 291-594, May/July; 595-841, September/November.

- Abe, M.**
797 see Tai, H.
- Adkins, R. J.**
347 see Bair, D. G.
- Agarwal, D. A.**
209 see Kramer, W. T. C.
- Agrawal, A.,** J. Basak, V. Jain, R. Kothari, M. Kumar, P. A. Mittal, N. Modani, K. Ravikumar, Y. Sabharwal, and R. Sureka
671 *Online marketing research*
- Agrawal, N.,** R. Ananthanarayanan, R. Gupta, S. Joshi, R. Krishnapuram, and S. Negi
679 *The eShopmonitor: A comprehensive data extraction tool for monitoring Web sites*
- Aihara, T.**
751 see Shimizu, S.
- Alves, L. C.**
519 see Fair, M. L.
- Amano, M.**
811 see Okano, H.
- Ananthanarayanan, R.**
679 see Agrawal, N.
- Anderson, H.-W.,** H. Kriese, W. Roesner, and K.-D. Schubert
367 *Configurable system simulation model build comprising packaging design data*
- Arnold, T. W.,** and L. P. Van Doorn
475 *The IBM PCIXCC: A new cryptographic coprocessor for the IBM eServer*
- Arthur-Mensah, B.**
461 see Hoppe, B.
- Asakawa, C.**
735 see Maeda, J.
- Axnix, C.,** E. Engler, S. Hegewald, T. Hesmer, M. Kuenzel, and F. M. Welter
435 *z990 NetMessage-protocol-based processor to support element communication interface*
- Bair, D. G.,** S. M. German, W. D. Wollyung, E. J. Kaminski, Jr., J. Schafer, M. P. Mullen, W. J. Lewis, R. Wisniewski, J. Walter, S. Mittermaier, V. Vokhshoori, R. J. Adkins, M. Halas, T. Ruane, and U. Hahn
347 *Functional verification of the z990 superscalar, multibook microprocessor complex*
- Banzhaf, G.,** F. W. Brice, G. R. Frazier, J. P. Kubala, T. B. Mathias, and V. Sameske
507 *SCSI initial program loading for zSeries*
- Basak, J.**
671 see Agrawal, A.
- Batra, N.**
717 see Mittal, P. A.
- Batra, V.**
693 see Mukherjea, S.
- Bawidamann, R.**
557 see Koerner, S.
- Becht, M. J.**
449 see Chencinski, E. W.
- Becker, W. D.**
379 see Winkel, T.-M.
- Beylkin, G.**
161 see Fann, G.
- Bhardwaj, D.**
693 see Mukherjea, S.
- Blake, M. A.**
323 see Mak, P.
- Bosco, F. E.**
395 see Parrilla, J. C.
- Brassard, G.,** P. Horodecki, and T. Mor
87 *TelePOVM—A generalized quantum teleportation scheme*
- Brice, F. W.**
507 see Banzhaf, G.
- Bubb, T. E.**
449 see Chencinski, E. W.
- Burwick, C. G.**
449 see Chencinski, E. W.
- Butler, G. F.**
209 see Kramer, W. T. C.
- Chamberlin, B. J.**
379 see Winkel, T.-M.
- Chan, P. T.**
583 see Stetter, M.
- Chanda, G.**
693 see Mukherjea, S.
- Chen, J.**
617 see Xiang, Z.
- Chen, X. Y.**
601 see Chen, Y.
- Chen, Y.,** X. Y. Chen, F. Y. Rao, X. L. Yu, Y. Li, and D. Liu
601 *LORE: An infrastructure to support location-aware services*
- Chencinski, E. W.,** M. J. Becht, T. E. Bubb, C. G. Burwick, J. Haess, M. M. Helms, J. M. Hoke, T. Schlipf, J. M. Turner, H. Ulland, M. H. Walz, C. H. Whitehead, and G. Zilles
449 *The structure of chips and links comprising the IBM eServer z990 I/O subsystem*
- Chencinski, E. W.**
461 see Hoppe, B.
- Chi, C. Y.**
635 see Fu, R. Y.

- Chou, D.**
649 see Zhu, J.
- Clarke, W. J.**
519 see Fair, M. L.
- Conklin, C. R.**
519 see Fair, M. L.
- Corbin, J. S.**
395 see Parrilla, J. C.
- Crawford, T.**
199 see Elmegreen, B. G.
- Crivelli, S.,** and T. Head-Gordon
153 *A new load-balancing strategy for the solution of dynamical large-tree-search problems using a hierarchical approach*
- Davenport, A. J.**
811 see Okano, H.
- Decker, D.**
583 see Stetter, M.
- Ding, W.**
649 see Zhu, J.
- Donath, W. E.**
173 see Newns, D. M.
- Draney, B. R.**
209 see Kramer, W. T. C.
- Ebisuzaki, T.**
199 see Elmegreen, B. G.
- Elfering, H.**
583 see Stetter, M.
- Elmegreen, B. G.,** R. H. Koch, M. E. Schabes, T. Crawford, T. Ebisuzaki, H. Furusawa, T. Narumi, R. Susukita, and K. Yasuoka
199 *Simulations of magnetic materials with MDGRAPE-2*
- Engler, E.**
435 see Axnix, C.
- Fair, M. L.,** C. R. Conklin, S. B. Swaney, P. J. Meaney, W. J. Clarke, L. C. Alves, I. N. Modi, F. Freier, W. Fischer, and N. E. Weber
519 *Reliability, availability, and serviceability (RAS) of the IBM eServer z990*
- Fann, G.,** G. Beylkin, R. J. Harrison, and K. E. Jordan
161 *Singular operators in multiwavelet bases*
- Farrell, M. S.**
425 see Heller, L. C.
- Fischer, W.**
519 see Fair, M. L.
- Fischer, W.**
557 see Koerner, S.
- Fleischer, B. M.**
311 see Gerwig, G.
- Fletcher, J. C.**
635 see Fu, R. Y.
- Frazier, G. R.**
507 see Banzhaf, G.
- Fredkin, E.**
31 *Five big questions with pretty simple answers*
- Freier, F.**
519 see Fair, M. L.
- Fu, R. Y.,** H. Su, J. C. Fletcher, W. Li, X. X. Liu, S. W. Zhao, and C. Y. Chi
635 *A framework for device capability on demand and virtual device user experience*
- Fukuda, K.**
735 see Maeda, J.
- Furusawa, H.**
199 see Elmegreen, B. G.
- Gao, X.**
617 see Xiang, Z.
- Garben, B.**
379 see Winkel, T.-M.
- Gellerich, W.,** T. Hendel, R. Land, H. Lehmann, M. Mueller, P. H. Oden, and H. Penner
543 *The GNU 64-bit PL8 compiler: Toward an open standard environment for firmware development*
- German, S. M.**
347 see Bair, D. G.
- Gerwig, G.,** H. Wetter, E. M. Schwarz, J. Haess, C. A. Krygowski, B. M. Fleischer, and M. Kroener
311 *The IBM eServer z990 floating-point unit*
- Gilbert, T. E.**
339 see Webel, T.
- Gioquindo, P. M.**
583 see Stetter, M.
- Glendening, B. A.**
535 see Siegel, I. G.
- Goth, G. F.,** D. J. Kearney, U. Meyer, and D. W. Porter
409 *Hybrid cooling with cycle steering in the IBM eServer z990*
- Grimshaw, A. S.,** M. A. Humphrey, and A. Natrajan
233 *A philosophical and technical comparison of Legion and Globus*
- Grinstein, G.**
5 *Can complex structures be generically stable in a noisy world?*
- Gupta, R.**
679 see Agrawal, N.
- Haess, J.**
449 see Chencinski, E. W.
- Haess, J.**
311 see Gerwig, G.
- Hahn, U.**
347 see Bair, D. G.
- Halas, M.**
347 see Bair, D. G.
- Harrer, H.**
379 see Winkel, T.-M.
- Harrison, R. J.**
161 see Fann, G.
- Head-Gordon, T.**
153 see Crivelli, S.
- Hegewald, S.**
435 see Axnix, C.
- Heller, L. C.,** and M. S. Farrell
425 *Millicode in an IBM zSeries processor*
- Helmich, U.**
557 see Koerner, S.
- Helms, M. M.**
449 see Chencinski, E. W.
- Hendel, T.**
543 see Gellerich, W.
- Hesmer, T.**
435 see Axnix, C.

- Hess, T.**
583 see Stetter, M.
- Hoke, J. M.**
449 see Chencinski, E. W.
- Hoppe, B.,** B. Arthur-Mensah, E. W. Chencinski, S. Joseph, H. Kumar, and J. F. Silverio
461 *Functional verification of a frequency-programmable switch chip with asynchronous clock sections*
- Hori, M.**
797 see Tai, H.
- Horodecki, M.**
139 see Horodecki, R.
- Horodecki, P.**
87 see Brassard, G.
- Horodecki, P.**
139 see Horodecki, R.
- Horodecki, R.,** M. Horodecki, and P. Horodecki
139 *Quantum information isomorphism: Beyond the dilemma of the Scylla of ontology and the Charybdis of instrumentalism*
- Hsu, W. W.,** and A. J. Smith
255 *The performance impact of I/O optimizations and disk improvements*
- Huang, J.**
617 see Xiang, Z.
- Huang, S.**
649 see Zhu, J.
- Hules, J. A.**
209 see Kramer, W. T. C.
- Humphrey, M. A.**
233 see Grimshaw, A. S.
- Inagaki, T.**
767 see Suganuma, T.
- Ishikawa, H.**
751 see Shimizu, S.
- Ishizaki, K.**
767 see Suganuma, T.
- Jain, V.**
671 see Agrawal, A.
- Jin, G.**
209 see Kramer, W. T. C.
- Jordan, K. E.**
161 see Fann, G.
- Joseph, S.**
461 see Hoppe, B.
- Joshi, S.**
679 see Agrawal, N.
- Jozsa, R.**
79 *Illustrating the concept of quantum information*
- Kaller, D.**
379 see Winkel, T.-M.
- Kaminski, E. J., Jr.**
347 see Bair, D. G.
- Kark, K. W.**
323 see Mak, P.
- Kawachiya, K.**
767 see Suganuma, T.
- Kawahito, M.**
767 see Suganuma, T.
- Kearney, D. J.**
409 see Goth, G. F.
- Klodt, D.**
557 see Koerner, S.
- Koch, R. H.**
199 see Elmegreen, B. G.
- Koerner, S.,** R. Bawidamann, W. Fischer, U. Helmich, D. Klodt, B. K. Tolan, and P. Wojciak
557 *The z990 first error data capture concept*
- Koerner, S.**
583 see Stetter, M.
- Kohler, A.**
583 see Stetter, M.
- Komatsu, H.**
767 see Suganuma, T.
- Koseki, A.**
767 see Suganuma, T.
- Kothari, R.**
671 see Agrawal, A.
- Kothari, R.**
693 see Mukherjea, S.
- Kramer, W. T. C.,** A. Shoshani, D. A. Agarwal, B. R. Draney, G. Jin, G. F. Butler, and J. A. Hules
209 *Deep scientific computing requires deep data*
- Kriese, H.**
367 see Anderson, H.-W.
- Krishnapuram, R.**
679 see Agrawal, N.
- Kroener, M.**
311 see Gerwig, G.
- Krygowski, C. A.**
311 see Gerwig, G.
- Kubala, J. P.**
507 see Banzhaf, G.
- Kubala, J. P.**
535 see Siegel, I. G.
- Kuenzel, M.**
435 see Axnix, C.
- Kumar, H.**
461 see Hoppe, B.
- Kumar, M.,** N. Rajput, and A. Verma
703 *A large-vocabulary continuous speech recognition system for Hindi*
- Kumar, M.**
671 see Agrawal, A.
- Kumar, M.**
717 see Mittal, P. A.
- Kuppinger, S. A.**
379 see Winkel, T.-M.
- Lake, G.,** T. Quinn, D. C. Richardson, and J. Stadel
183 *The pursuit of the whole NChilada: Virtual petaflops using multi-adaptive algorithms for gravitational systems*
- Land, R.**
543 see Gellerich, W.
- Lehmann, H.**
543 see Gellerich, W.
- Lengsfeld, B. H., III**
173 see Newns, D. M.
- Lewis, W. J.**
347 see Bair, D. G.

- Li, T.**
649 see Zhu, J.
- Li, W.**
635 see Fu, R. Y.
- Li, Y.**
601 see Chen, Y.
- Lindner, H.**
583 see Stetter, M.
- Liu, B.**
649 see Zhu, J.
- Liu, D.**
601 see Chen, Y.
- Liu, X. X.**
635 see Fu, R. Y.
- Loparco, J. J.**
395 see Parrilla, J. C.
- Maeda, J.,** K. Fukuda, H. Takagi, and C. Asakawa
735 *Web accessibility technology at the IBM Tokyo Research Laboratory*
- Magge, J. A.**
295 see Slegel, T. J.
- Mak, P.,** G. E. Strait, M. A. Blake, K. W. Kark, V. K. Papazova, A. E. Seigler, G. A. Van Huben, L. Wang, and G. C. Wellwood
323 *Processor subsystem interconnect architecture for a large symmetric multiprocessing system*
- Martyna, G. J.**
173 see Newns, D. M.
- Mathias, T. B.**
507 see Banzhaf, G.
- McCain, E. C.**
569 see Schubert, K.-D.
- Meaney, P. J.**
519 see Fair, M. L.
- Mermin, N. D.**
53 *Copenhagen computation: How I learned to stop worrying and love Bohr*
- Meyer, U.**
409 see Goth, G. F.
- Mitsui, K.**
797 see Tai, H.
- Mittal, P. A.,** M. Kumar, M. K. Mohania, M. Nair, N. Batra, P. Roy, A. Saronwala, and L. Yagnik
717 *A framework for eGovernance solutions*
- Mittal, P. A.**
671 see Agrawal, A.
- Mittermaier, S.**
347 see Bair, D. G.
- Modani, N.**
671 see Agrawal, A.
- Modi, I. N.**
519 see Fair, M. L.
- Mohania, M. K.**
717 see Mittal, P. A.
- Mor, T.**
87 see Brassard, G.
- Mueller, M.**
543 see Gellerich, W.
- Mukherjea, S.,** L. V. Subramaniam, G. Chanda, S. Sankararaman, R. Kothari, V. Batra, D. Bhardwaj, and B. Srivastava
693 *Enhancing a biomedical information extraction system with dictionary mining and context disambiguation*
- Mullen, M. P.**
347 see Bair, D. G.
- Nair, M.**
717 see Mittal, P. A.
- Nakatani, T.**
767 see Suganuma, T.
- Narumi, T.**
199 see Elmegreen, B. G.
- Natrajan, A.**
233 see Grimshaw, A. S.
- Negi, S.**
679 see Agrawal, N.
- Nerome, T.**
797 see Tai, H.
- Newns, D. M.,** W. E. Donath, G. J. Martyna, M. E. Schabes, and B. H. Lengsfeld III
173 *Novel efficient techniques for computer simulation of magnetic recording*
- Oakes, K. J.**
489 see Wyman, L. W.
- Oden, P. H.**
543 see Gellerich, W.
- Ogasawara, T.**
767 see Suganuma, T.
- Okano, H.,** A. J. Davenport, M. Trumbo, C. Reddy, K. Yoda, and M. Amano
811 *Finishing Line Scheduling in the steel industry*
- Ono, K.**
797 see Tai, H.
- Onodera, T.**
767 see Suganuma, T.
- Papazova, V. K.**
323 see Mak, P.
- Pape, H.**
569 see Schubert, K.-D.
- Parrilla, J. C.,** F. E. Bosco, J. S. Corbin, J. J. Loparco, P. Singh, and J. G. Torok
395 *Packaging the IBM eServer z990 central electronic complex*
- Penner, H.**
543 see Gellerich, W.
- Peres, A.**
63 *What is actually teleported?*
- Petri, K.**
583 see Stetter, M.
- Pfeffer, E.**
295 see Slegel, T. J.
- Porter, D. W.**
409 see Goth, G. F.
- Pross, H.**
379 see Winkel, T.-M.
- Quinn, T.**
183 see Lake, G.
- Rajput, N.**
703 see Kumar, M.

- Rao, F. Y.**
601 see Chen, Y.
- Ravikumar, K.**
671 see Agrawal, A.
- Rebmann, K.**
569 see Schubert, K.-D.
- Reddy, C.**
811 see Okano, H.
- Richardson, D. C.**
183 see Lake, G.
- Roesner, W.**
367 see Anderson, H.-W.
- Roy, P.**
717 see Mittal, P. A.
- Ruane, T.**
347 see Bair, D. G.
- Ruskai, M. B.**
111 *Some bipartite states do not arise from channels*
- Sabharwal, Y.**
671 see Agrawal, A.
- Sameske, V.**
507 see Banzhaf, G.
- Sankararaman, S.**
693 see Mukherjea, S.
- Saronwala, A.**
717 see Mittal, P. A.
- Satoh, A.**
751 see Shimizu, S.
- Schabes, M. E.**
199 see Elmegreen, B. G.
- Schabes, M. E.**
173 see Newns, D. M.
- Schafer, J.**
347 see Bair, D. G.
- Schlipf, T.**
449 see Chencinski, E. W.
- Schmunkamp, D.**
339 see Webel, T.
- Schubert, K.-D.,** E. C. McCain, H. Pape, K. Rebmann, P. M. West, and R. Winkelmann
569 *Accelerating system integration by enhancing hardware, firmware, and co-simulation*
- Schubert, K.-D.**
367 see Anderson, H.-W.
- Schwarz, E. M.**
311 see Gerwig, G.
- Seigler, A. E.**
323 see Mak, P.
- Shen, J.,** P. Sun, J. Zhang, and S. Song
627 *iMMS: Interactive multimedia messaging service*
- Shimizu, S.,** H. Ishikawa, A. Satoh, and T. Aihara
751 *On-demand design service innovations*
- Shor, P. W.**
115 *The adaptive classical capacity of a quantum channel, or Information capacities of three symmetric pure states in three dimensions*
- Shoshani, A.**
209 see Kramer, W. T. C.
- Siegel, I. G.,** B. A. Glendening, and J. P. Kubala
535 *Logical partition mode physical resource management on the IBM eServer z990*
- Silverio, J. F.**
461 see Hoppe, B.
- Singh, P.**
395 see Parrilla, J. C.
- Slegel, T. J.,** E. Pfeffer, and J. A. Magee
295 *The IBM eServer z990 microprocessor*
- Smith, A. J.**
255 see Hsu, W. W.
- Smolin, J. A.**
47 *The early days of experimental quantum cryptography*
- Song, S.**
627 see Shen, J.
- Song, S.**
617 see Xiang, Z.
- Srivastava, B.**
693 see Mukherjea, S.
- Stadel, J.**
183 see Lake, G.
- Stetter, M.,** J. von Buttlar, P. T. Chan, D. Decker, H. Elfering, P. M. Gioquindo, T. Hess, S. Koerner, A. Kohler, H. Lindner, K. Petri, and M. Zee
583 *IBM eServer z990 improvements in firmware simulation*
- Strait, G. E.**
323 see Mak, P.
- Su, H.**
635 see Fu, R. Y.
- Subramaniam, L. V.**
693 see Mukherjea, S.
- Suganuma, T.,** T. Ogasawara, K. Kawachiya, M. Takeuchi, K. Ishizaki, A. Koseki, T. Inagaki, T. Yasue, M. Kawahito, T. Onodera, H. Komatsu, and T. Nakatani
767 *Evolution of a Java just-in-time compiler for IA-32 platforms*
- Sun, P.**
627 see Shen, J.
- Sun, W.**
649 see Zhu, J.
- Sureka, R.**
671 see Agrawal, A.
- Susukita, R.**
199 see Elmegreen, B. G.
- Swaney, S. B.**
519 see Fair, M. L.
- Tai, H.,** K. Mitsui, T. Nerome, M. Abe, K. Ono, and M. Hori
797 *Model-driven development of large-scale Web applications*
- Takagi, H.**
735 see Maeda, J.
- Takeuchi, M.**
767 see Suganuma, T.
- Terhal, B. M.**
71 *Is entanglement monogamous?*
- Tian, Z.**
649 see Zhu, J.
- Toffoli, T.**
13 *A pedestrian's introduction to spacetime crystallography*
- Tolan, B. K.**
557 see Koerner, S.
- Torok, J. G.**
395 see Parrilla, J. C.
- Trotter, J. S.**
489 see Wyman, L. W.

- Trumbo, M.**
811 see Okano, H.
- Turner, J. M.**
449 see Chencinski, E. W.
- Ulland, H.**
449 see Chencinski, E. W.
- Van Doorn, L. P.**
475 see Arnold, T. W.
- Van Huben, G. A.**
323 see Mak, P.
- Verma, A.**
703 see Kumar, M.
- Vokhshoori, V.**
347 see Bair, D. G.
- von Buttler, J.**
583 see Stetter, M.
- Walter, J.**
347 see Bair, D. G.
- Walz, M. H.**
449 see Chencinski, E. W.
- Wang, C. C.**
649 see Zhu, J.
- Wang, H.**
617 see Xiang, Z.
- Wang, L.**
323 see Mak, P.
- Webel, T.,** T. E. Gilbert, and D. Schmunkamp
339 *Run-control migration from single book to multibooks*
- Weber, N. E.**
519 see Fair, M. L.
- Wellwood, G. C.**
323 see Mak, P.
- Welter, F. M.**
435 see Axnux, C.
- Weng, L.**
649 see Zhu, J.
- West, P. M.**
569 see Schubert, K.-D.
- Wetter, H.**
311 see Gerwig, G.
- Whitehead, C. H.**
449 see Chencinski, E. W.
- Winkel, T.-M.,** W. D. Becker, H. Harrer, H. Pross, D. Kaller, B. Garben, B. J. Chamberlin, and S. A. Kuppinger
379 *First- and second-level packaging of the z990 processor cage*
- Winkelmann, R.**
569 see Schubert, K.-D.
- Wisniewski, R.**
347 see Bair, D. G.
- Wojciak, P.**
557 see Koerner, S.
- Wollyung, W. D.**
347 see Bair, D. G.
- Wootters, W. K.**
99 *Picturing qubits in phase space*
- Wu, G.**
649 see Zhu, J.
- Wyman, L. W.,** H. M. Yudenfriend, J. S. Trotter, and K. J. Oakes
489 *Multiple-logical-channel subsystems: Increasing zSeries I/O scalability and connectivity*
- Xiang, Z.,** S. Song, J. Chen, H. Wang, J. Huang, and X. Gao
617 *A wireless LAN-based indoor positioning technology*
- Yagnik, L.**
717 see Mittal, P. A.
- Yasue, T.**
767 see Suganuma, T.
- Yasuoka, K.**
199 see Elmegreen, B. G.
- Ye, S.**
649 see Zhu, J.
- Yoda, K.**
811 see Okano, H.
- Yu, X. L.**
601 see Chen, Y.
- Yudenfriend, H. M.**
489 see Wyman, L. W.
- Zee, M.**
583 see Stetter, M.
- Zhang, J.**
627 see Shen, J.
- Zhao, S. W.**
635 see Fu, R. Y.
- Zhu, J.,** Z. Tian, T. Li, W. Sun, S. Ye, W. Ding, C. C. Wang, G. Wu, L. Weng, S. Huang, B. Liu, and D. Chou
649 *Model-driven business process integration and management: A case study with the Bank SinoPac regional service platform*
- Zilles, G.**
449 see Chencinski, E. W.